



A.D. 1857 N° 2202.

S P E C I F I C A T I O N

OF

CHARLES FRÉDÉRIC VASSEROT.

—
SMOKE-CONSUMING GRATE.
—

L O N D O N :

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Smoke-consuming Grate.

(This Invention received Provisional Protection, but notice to proceed with the application for Letters Patent was not given within the time prescribed by the Act.)

PROVISIONAL SPECIFICATION left by Charles Frédéric Vasserot at the Office of the Commissioners of Patents, with his Petition, on the 19th August 1857.—A communication from Messieurs Dalmatius de Luzy and Hector Grand de Chateauneuf, of Paris, France.

5 I, CHARLES FRÉDÉRIC VASSEROT, of 45, Essex Street, Strand, London, Patent Agent, do hereby declare the nature of the said Invention for “**A SMOKE-CONSUMING GRATE**,” a communication from Messieurs Dalmatius de Luzy and Hector Grand de Chateauneuf, of Paris, France, to be as follows, and consist of two large tubes, in the side of which a set of pipes are adjusted
10 and form the grate. Those two tubes are connected with the boiler tubes and the boiler at the height of the lowest level of its water. The grate and the boiler tubes are inclined so as to allow the flames to pass in the direction of the gallery formed underneath the boiler. The grate is fixed above the said gallery so that the draft be made downwards upon it. The whole is
15 fixed on a frame made of bricks, which forms the fire-place and the ash-pit. Openings are made on the four sides of the grate for the admission of the atmospheric air. The grate is closed by means of a door placed above it, which is opened for the introduction of the fuel by means of a chain and counterpoise. With this arrangement the introduction of a great volume of air into the
20 fire-place becomes advantageous. The combustion of the coal, which hitherto took place at the upper part, descends now; the air arrives on the coal where it begins to burn, and the gases are ignited at the instant they are formed.

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